80-796 SHEET 2 OF 2 INDEX MAPS RELATIVE MAPPING CONFIDENCE FOR DIFFERENT AREAS PREVIOUS MAPS 3A HAWAIIAN ISLANDS Sheet 1 Honolulu 0 100 Km. Sheet 2 ISLAND OF HAWAII General degree of confidence Main factor limiting confidence Shown above are the maps in the U.S. Geological Survey 1:24,000 series.
Unstippled areas have topographic coverage only. Geologic maps of the stippled areas have been published by

1. Peterson (1967)

2. Moore and Koyanagi (1969)

3. Walker (1969) A Adjacent pahoehoe flows have inherently obscure contacts 1 Very good Mauna Kea 5 Dpt 2 Relatively good B Tephra obscures relationships between underlying units 3 Average 4. Macdonald (1971) 5. Holcomb (1976) C Vegetal sparsity on non-adjacent flows obscures chronology based on plant succession 4 Relatively poor The part of Kilauea in the Ka'u District was included in the map of Stearns and Clark (1930) at a scale of 1:62,500, and the entire volcano was included in the map of Stearns and Macdonald (1946) at a scale of 5 Very poor 1:125,000. D Rain forest obscures geology Mauna Loa E Human forest modification obscures plant succession REFERENCES Easton, R. M. (1978) "The stratigraphy and petrology of the Hilina Formation: The oldest exposed lavas of Kilauea Volcano, Hawaii", M.S. thesis, University of Hawaii, 274 p. Holcomb, R. T. (1976) "Preliminary map showing products of eruptions, 1962-1974, from the upper east rift zone of Kilauea Volcano, Hawaii", U.S. Geological Survey Miscellaneous Investigations Map MF-811. Macdonald, G. A. (1971) "Geologic map of the Mauna Loa quadrangle, Hawaii", U.S. Geological Survey Geologic Quadrangle Map GQ-897. Moore, J. G. (1969) "Geologic map of the central part of the east rift zone of Kilauea Volcano, Hawaii", in Moore, J. G.; and Koyanagi, R. Y. (1969) "The October 1963 eruption of Kilauea Volcano, Hawaii", U.S. Geological Survey Professional Paper 614-C, 13 p. Peterson, D. W. (1967) "Geologic map of the Kilauea Crater quadrangle, Hawaii", U.S. Geological Survey Geologic Quadrangle Map GQ-667. Stearns, H. T.; and Clark, W. O. (1930 "Geology and water resources of the Kau District, Hawaii", U.S. Geological Survey Water-Supply Paper 616, 194 p. Stearns, H. T.; and Macdonald, G. A. (1946) "Geology and water resources of the Island of Hawaii", Hawaii Division of Hydrography, Bulletin 9, 363 p. Walker, G. W. (1969) "Geologic map of the Kau Desert quadrangle, Hawaii", U.S. Geological Survey Geologic Quadrangle Map GQ-827. -19⁰30 1 $\frac{1}{2}$ 0 1 2 3 4 5 Kilometers PRELIMINARY GEOLOGIC MAP OF KILAUEA VOLCANO, HAWAII Robin T. Holcomb 1980

Geology mapped from aerial photographs and field checked, 1977; revised, 1980

155⁰07'30"

154⁰45

154⁰50'